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Monthly Report

25X1

PAR 243A 28 Apr 67

SUBJECT: BPE (Prototype)

TASK/PROBLEM

1. Design, fabricate, and test a prototype briefing print enlarger (BPE) based upon tests and observations of the breadboard equipment developed on the combined PAR 202/224.

DISCUSSION

- 2. Effort during the month involved electrical and mechanical checkout, the correction of fabrication and design errors, and making adjustments. Some typical problems requiring correction were:
 - a. Improperly connected wires.
 - b. Cold solder joints.
 - c. An untempered spring in the fluid-injection-pump drive linkage.
 - d. Burrs in the pump cylinders.
 - e. Limit switches not properly adjusted.

The need for design improvements was recognized and some typical changes which were made are listed below.

- a. The mounting of the fluid-gate-enclosure shroud was revised to permit easier access for servicing.
- b. The design of the easel photometer probe-aperture assembly was revised and rebuilt to provide better protection from breakage.
- c. The logic in several control circuits was modified to provide a simpler operating procedure.
 - d. Covers were designed for two unprotected areas of the enlarger.
- 3. Considerable progress was made in writing a preliminary operational manual, and photographs to illustrate it were taken.

PLANNED ACTIVITY

- 4. Continue checkout and adjustment of the enlarger.
- 5. Complete preparation of the manual.

Declass Review by NGA.